CE-ATA Technical Errata

Errata ID	Protocol 018
Affected Spec Ver.	Protocol 1.0
Corrected Spec Ver.	

Submission info

Name	Company	Date
Amber Huffman	Intel	10/14/2005

Description of the specification technical flaw (add space as needed)

The appendix that shows ATA command examples has inaccurate values for bit 6 of the Device register. Bit 6 of the Device register is reserved for READ DMA EXT and WRITE DMA EXT commands in CE-ATA, since all commands only use LBA addressing. This erratum corrects the example in the appendix to follow the ATA command definitions.

Description of the correction

Figure 35 shall be modified as shown:

Address	Register	7	6	5	4	3	2	1	0
0h	Reserved	Reserved							
1h	Features (exp)	Reserved							
2h	Sector Count (exp)	Sector Count (15:8)							
3h	LBA Low (exp)	LBA (31:24)							
4h	LBA Mid (exp)	LBA (39:32)							
5h	LBA High (exp)	LBA (47:40)							
6h	Control	Reserved					SRST	nIEN	0
7h	Reserved	Reserved							
8h	Reserved	Reserved							
9h	Features (Write Only)	Reserved							
9h	Error (Read Only)	ICRC	UNC	MC	IDNF	MCR	ABRT	NM	R
Ah	Sector Count	Sector Count (7:3)					0	0	0
Bh	LBA Low	LBA (7:3)					0	0	0
Ch	LBA Mid	LBA (15:8)							
Dh	LBA High	LBA (23:16)							
Eh	Device/Head	0	~~1~~ 0	0	0	Reserved			
Fh	Command (Write Only)	Command							
Fh	Status (Read Only)	BSY	DRDY	DF	R	DRQ	R	R	ERR

Figure 36 shall be modified as shown:

Address	Register	7	6	5	4	3	2	1	0
0h	Reserved	0							
1h	Features (exp)	0							
2h	Sector Count (exp)	0							
3h	LBA Low (exp)	0							
4h	LBA Mid (exp)	0							
5h	LBA High (exp)	0							
6h	Control	0					0	0	0
7h	Reserved	0							
8h	Reserved	0							
9h	Features	0							
Ah	Sector Count	10h							
Bh	LBA Low	0							
Ch	LBA Mid	1h							
Dh	LBA High	0							
Eh	Device/Head	0	~~1~~ 0	0	0	0			
Fh	Command	25h							

Figure 40 shall be modified as shown:

Address	Register	7	6	5	4	3	2	1	0
0h	Reserved					0			
1h	Features (exp)					0			
2h	Sector Count (exp)					0			
3h	LBA Low (exp)					0			
4h	LBA Mid (exp)					0			
5h	LBA High (exp)					0			
6h	Control			0			0	0	0
7h	Reserved					0			
8h	Reserved					0			
9h	Features					0			
Ah	Sector Count					8h			
Bh	LBA Low					0			
Ch	LBA Mid					1h			
Dh	LBA High					0			
Eh	Device/Head	0	~~1~~ 0	0	0		0		
Fh	Command					35h			

Disposition log

10/14/2005	Erratum captured
1/12/2006	Erratum ratified

Technical input submitted to the CE-ATA Workgroup is subject to the terms of the CE-ATA contributor's agreement.